Probability Packet

There are approximately 440 m&m’s in a 14oz bag of m&m’s. The colors are distributed below:

Orange- 95 Red- 60 Green- 65

Yellow- 70 Brown- 55 Blue- 95

**You draw one m &m from the bag…**

1. Which Color M&M is least likely to be drawn from the bag?
2. What is the probability of drawing a yellow M&M?
3. What is the probability of drawing a blue M&M?
4. What is the probability of drawing a red or green M&M?
5. What is the probability of drawing an M&M that is not red?
6. What is the probability of drawing an M&M that is not brown or orange?
7. Would you be more likely to draw an M&M that is not yellow or an M&M that is not blue?

Explain your answer.

1. If three more yellow M&Ms were added to the bag, what would be the probability of drawing a yellow M&M?
2. What is the probability of drawing an M&M from the bag? Explain

**Compound Probability:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Ex 1:** Find the probability of tossing two dice and getting a 3 on each one.

**Ex 2:** Your wallet has a 6 nickels, 8 pennies, 4 quarters, and 3 dimes.

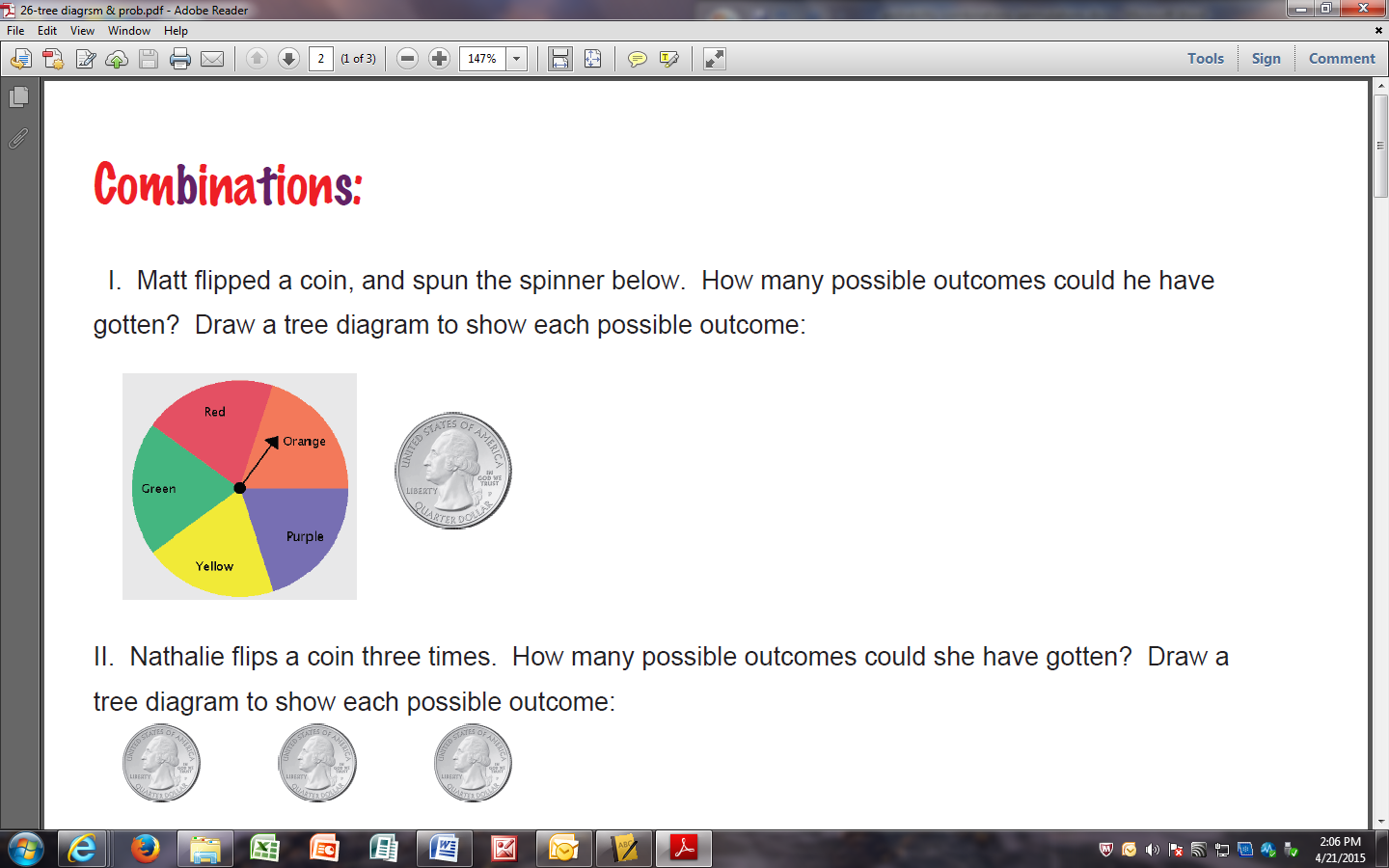
a) What’s the probability of choosing a penny & a dime?

b) What’s the probability of choosing a quarter & a nickel?

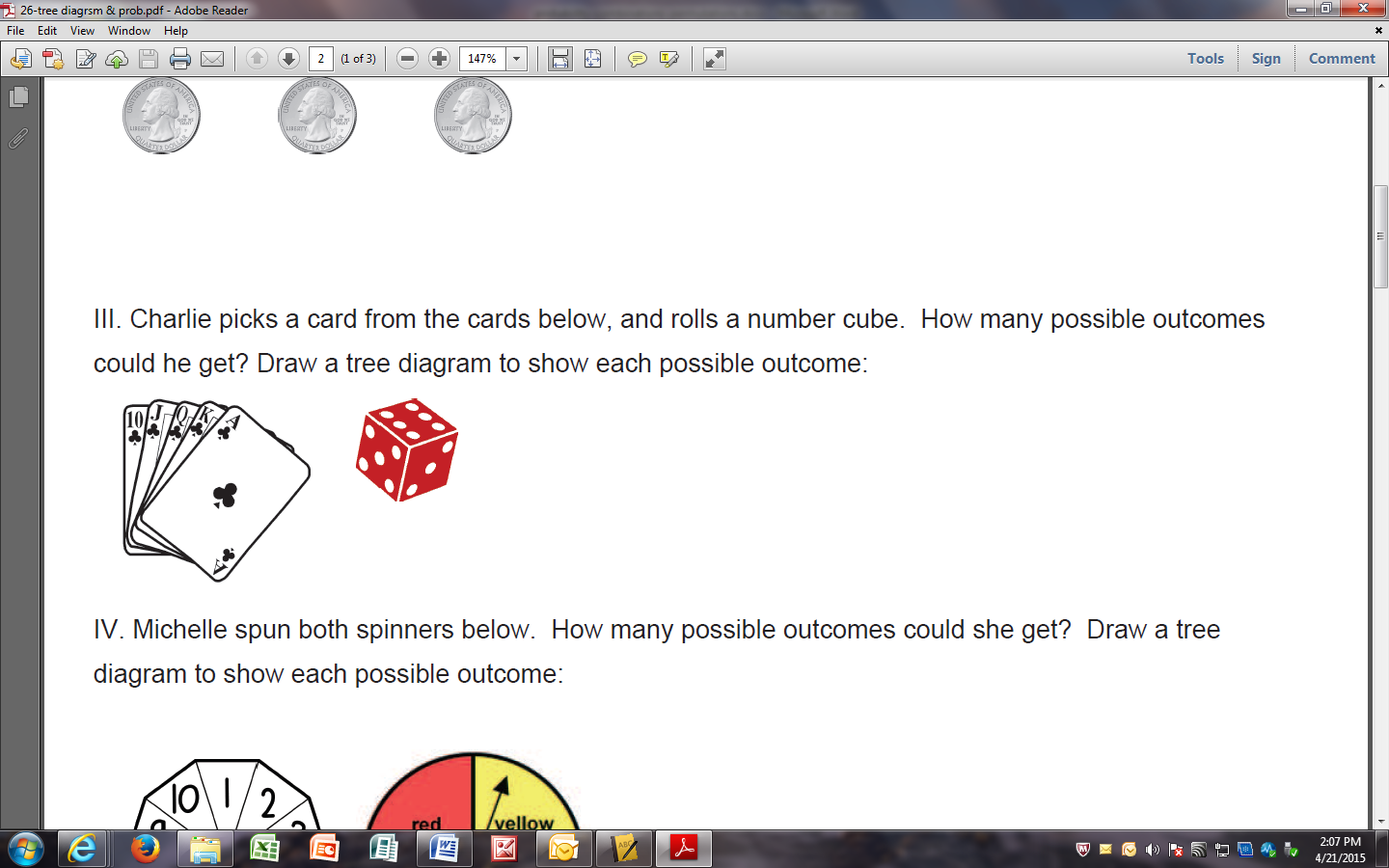
**Practice:**

1) If two coins are tossed, what is the probability of getting exactly two heads?

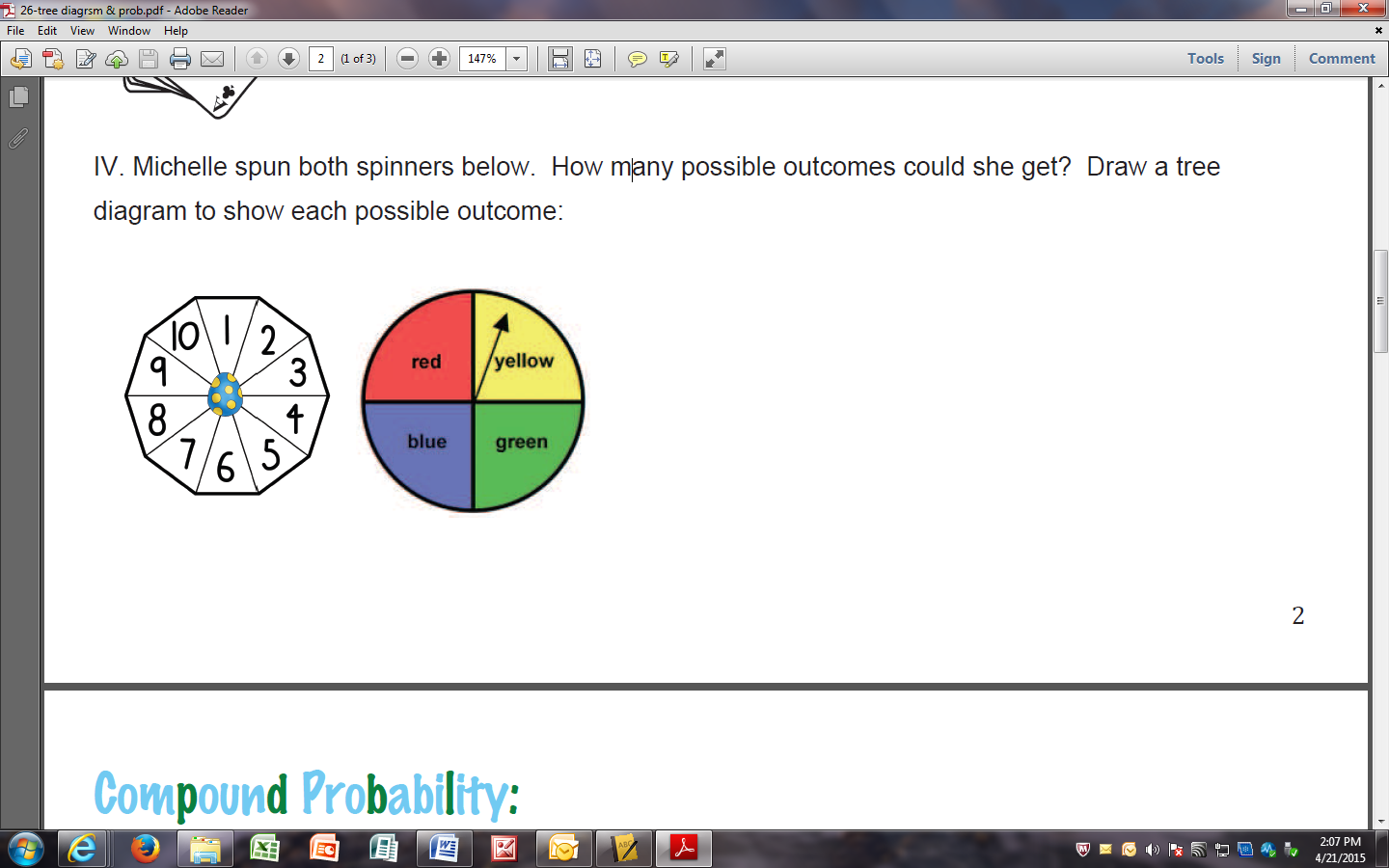
2) Matt flipped a coin, and spun the spinner below. What’s the probability of getting a red on the spinner and tails on the coin.

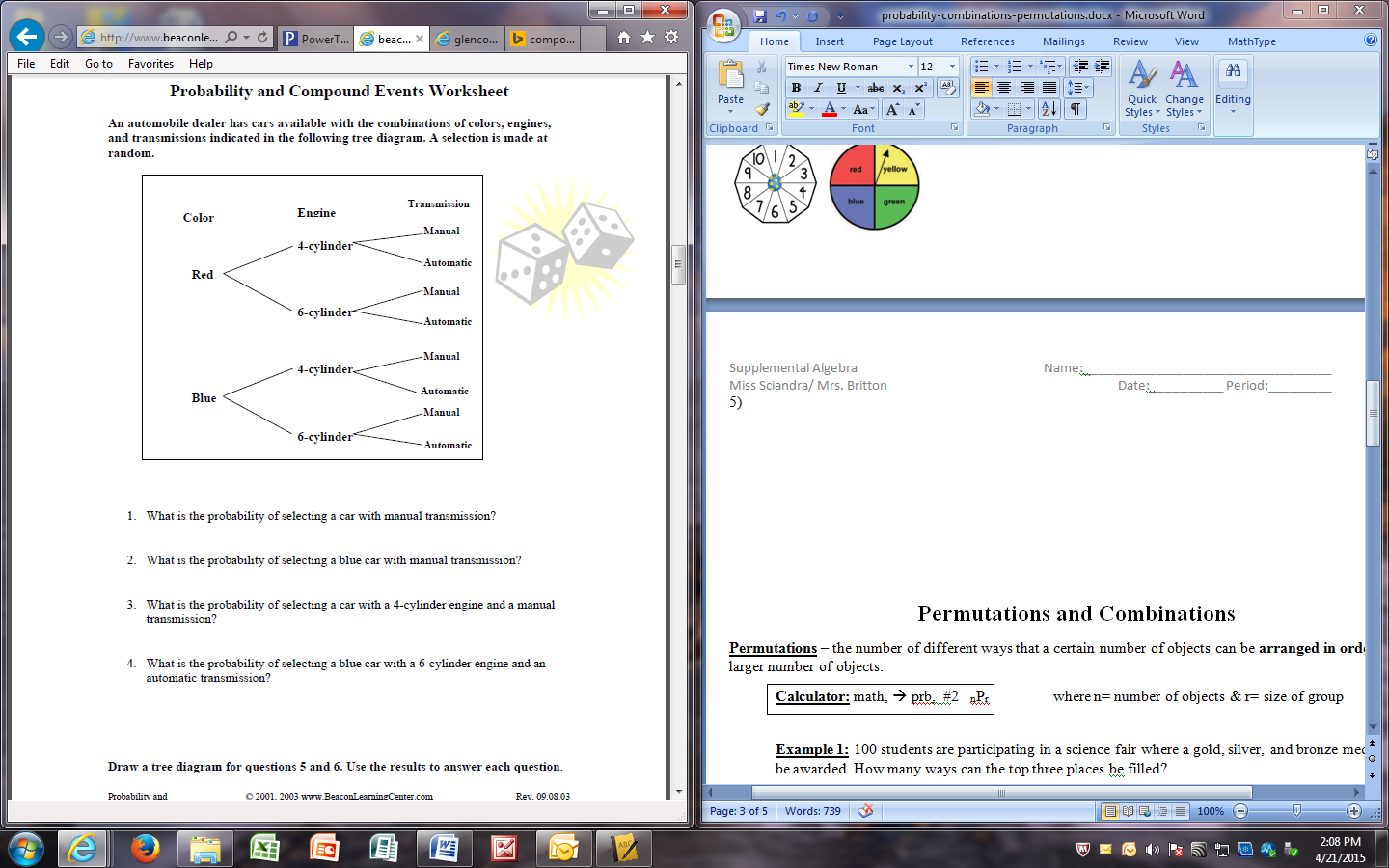


3) Charlie picks a card from the cards below, and rolls a di. What’s the probability of getting a King or Ace & rolling a 1?



4) Michelle spun both spinners below. What’s the probability of getting a 10 and blue? How about a 1-3 and a green?



5)

1) What is the probability of selecting a car with manual transmission?

2) What is the probability of selecting a blue car with manual transmission?

3) What is the probability of selecting a car with a 4- cylinder engine and a manual transmission

4) What is the probability of selecting a blue car with a 6-cylinder engine and an automatic transmission.